

We claim:

1. A screen repair apparatus for temporarily repairing damaged sections of vibratory or gyratory screens, comprising:

a. a plate having an upper and lower surface and a plurality of holes disposed through the thickness of the plate ;

b. a plurality of duplex jaws, wherein the number of duplex jaws equals the number of holes in the plate, and wherein each duplex jaw has an upper and lower surface, has an incurved section along the upper surface of each duplex jaw, the length of which is less than the overall length of the upper surface, and has a raised flat section at either end of the upper surface of each duplex jaw;

c. An attachment rod, the proximal end of which is in communication orthogonally to the center of each duplex jaw; and

d. clamping means for utilizing the attachment rod to draw together the duplex jaw and the plate against the lower and upper surfaces, respectively, of the screen.

2. The screen repair device of claim 1, wherein the plate is comprised of a plurality of opening or slots through its thickness, sized and spaced equally to that of the damaged screen.

3. The screen repair apparatus of claim 1, wherein the plate is steel, aluminum or a resilient polymer.

4. The screen repair apparatus of claim 3, wherein the resilient polymer is polyurethane.

5. The screen repair apparatus of claim 1, wherein the lower surface of the plate is incurved.

6. The screen repair apparatus of claim 1, further comprising a plurality of cauls, each caul being oblong in shape and having upper and lower surfaces and a vertical hole in the center of

the caul, whereby one of the cauls is disposed between the upper surface of the plate and each of the clamping means with the attachment rod disposed through the hole in the caul.

7. The screen repair apparatus of claim 6, wherein the lower surface of the cauls are incurved.

8. A method for temporarily repairing damaged or worn sections of vibratory or gyratory screen, wherein the screen is comprised of a plurality of screen elements disposed with a specified spacing between the elements, comprising the steps of:

a. placing a plate, having an upper and a lower surface and a plurality of holes disposed through the thickness of the plates, onto the upper surface of the screen, covering the damaged or worn section, with the lower surface of the plate in communication with the upper surface of the screen;

b. registering a clamping arm, comprised of a duplex jaw with an upper surface with two flat areas on the upper surface and an attachment rod, with the plate, wherein the distal end of the attachment rod passes between elements of the screen and engages with one of the holes in the plate and the flat areas of the duplex jaws engage with the lower surface of the screen; and

c. engaging a clamping means on the clamping arm for compressing the lower surface of the plate and the flat areas of the duplex jaws against either side of the screen elements.